

**Southeast Asian Fisheries Development Center**

**Aquaculture Department**

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# Backyard hatchery

Aquaculture Department, Southeast Asian Fisheries Development Center

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## Economic indicators

	Marine Fish		Abalone
Investment cost, PhP		500,000	500,000
Projected sales per run of 21–45 days, PhP	milkfish	– 100,000	64,000–80,000
	seabass	– 100,000	
	grouper	– 150,000	
	pompano	– 100,000	
	snapper	– 150,000	
	rabbitfish	– 60,000	

## Products

Fish larvae	Price, PhP
<b>Grouper</b>	
0.5 inch	4.00 / pc
1.0 inch	8.00 / pc
<b>Pompano</b>	
1.0 inch	5.00 / inch
<b>Rabbitfish</b>	
1.0 cm	0.50 / pc
2.0 cm	1.00 / pc
<b>Seabass</b>	
12–15 days (rotifer-fed)	0.10 / pc
16–25 days (rotifer-fed)	0.20 / pc
1.0 cm ( <i>Artemia</i> -fed)	0.20 / pc
1.0 inch	3.00 / pc
<b>Snapper</b>	
0.5 inch	4.00 / pc
1.0 inch	8.00 / pc

Abalone juveniles	Price, PhP
1.1–1.5 cm	4.00 / pc
1.6–2.0 cm	5.00 / pc
2.1–2.5 cm	6.00 / pc
2.6–3.0 cm	7.00 / pc
3.1–3.5 cm	8.00 / pc



For more information, contact SEAFDEC/AQD:  
 Tel 63–33 511 9171, 511 9170  
 Fax 63–33 511 8709  
 Email [aqdchief@seafdec.org.ph](mailto:aqdchief@seafdec.org.ph)  
[www.seafdec.org.ph](http://www.seafdec.org.ph)



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# Backyard hatchery

## Why hatchery?

The facility aims to demonstrate profitable operations of abalone and marine fish small-scale hatcheries requiring minimal investment while showcasing AQD technologies.

## The area

- measures 896 m<sup>2</sup>, situated beside AQD's FishWorld museum
- with gravel bedding and perimeter fence made of bamboo posts and hogwire
- each area (marine fish and abalone) has its own independent pre-filtered seawater supply system (with 2 HP centrifugal pumps and 1 HP roots blower for aeration)
- concrete drain pits and main canal for harvesting and drainage for each hatchery area
- backyard hatchery has common harvest and work areas, store room, equipment room, and roof structure





## Marine fish hatchery

- for rearing milkfish and high value fishes such as grouper, seabass, snapper, rabbitfish and pompano
- 10-ton circular larval rearing tanks (LRT) (6 units)
- 10-ton circular natural food culture tanks (NFT) (10 units)
- 2-ton circular nursery tanks (NT) (12 units)
- LRT, NFT made of rubberized canvas with marine plywood support, NT made of concrete
- capable of producing 10,000–100,000 fry or fingerlings per run
- fish are available from the hatchery depending on the breeding season



## Abalone hatchery

- 34-ton reservoir (1 unit)
- 4.2-ton settlement tanks (16 units)
- 4.2-ton secondary nursery tanks (4 units)
- 2.1-ton diatom culture tanks (3 units)
- tanks made of canvas reinforced with bamboo frames for support
- reservoir made of marine plywood siding
- capable of producing 20,000–25,000 abalone juveniles (1.1–1.5 cm) per month

